

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: C8003 Issue date: 09/01/2024 Revision date: 09/01/2024 Supersedes version of: 22/02/2017 Version: 3.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# **1.1. Product identifier**

Product form	: Substance
Trade name	: Cellulase Onozuka RS
Chemical name	: Cellulase
EC Index-No.	: 647-002-00-3
EC-No.	: 232-734-4
CAS-No.	: 9012-54-8
Product code	: C8003
Product group	: Raw material

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category	
Industrial/Professional use spec	

Professional use
For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

#### 1.2.2. Uses advised against

## No additional information available

## Distributor

Duchefa Biochemie B.V. A. Hofmanweg 71 2031 BH Haarlem The Netherlands T +31(0)23-5319093 - F +31(0)23-5318027 info@duchefa.nl

## 1.4. Emergency telephone number

Emergency number

: Supplier contact information: +31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30008100 (outside office hours)

Country	Organisation/Company	Address	Emergency number	Comment
	World Health Organization world directory of poison centres	http://apps.who.int/poiso ncentres/		Consult website for a local poison centre

# **SECTION 2: Hazards identification**

2.1. Classification of the substance or mix	ure	
Classification according to Regulation (EC) No. 1	272/2008 [CLP]	
Respiratory sensitisation, Category 1 Full text of H- and EUH-statements: see section 16	H334	
Adverse physicochemical, human health and env	vironmental effects	

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# 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



: Danger

doctor.

Signal word (CLP) Hazard statements (CLP)

Precautionary statements (CLP)

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
P261 - Avoid breathing dust, fume, gas, mist, spray, vapours. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or

#### 2.3. Other hazards

No additional information available

# SECTION 3: Composition/information on ingredients

Comments Substance type	: Enzymatic activity > 1600 : Mono-constituent	: Enzymatic activity > 16000 u/g : Mono-constituent		
Name	Product identifier	%		
Cellulase Onozuka RS	CAS-No.: 9012-54-8 EC-No.: 232-734-4 EC Index-No.: 647-002- 00-3	100		

# 3.2. Mixtures

Not applicable

SECTION 4: First aid measures			
4.1. Description of first aid measured	Ires		
First-aid measures general	: Seek medical attention if ill effect or irritation develops.		
First-aid measures after inhalation	: Remove victim to fresh air. If experiencing respiratory symptoms: Call a poison center or a doctor.		
First-aid measures after skin contact	: Wash skin with mild soap and water. Seek medical attention if irritation develops.		
First-aid measures after eye contact	: Rinse with water.		
First-aid measures after ingestion	: Rinse mouth out with water.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects	: Exposure may produce an allergic reaction.		

# 4.3. Indication of any immediate medical attention and special treatment needed

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SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Carbon dioxide (CO2), dry chemical powder, foam.
5.2. Special hazards arising from the	substance or mixture
Hazardous decomposition products in case of fire	: Under fire conditions, hazardous fumes will be present: - COx NOx.
5.3. Advice for firefighters	
Precautionary measures fire Firefighting instructions	<ul><li>Wear proper protective equipment.</li><li>Prevent fire fighting water from entering the environment.</li></ul>

SECTION 6: Accidental release measures				
6.1. Personal precautions, p	otective equipment and emergency procedures			
General measures	: Wear proper protective equipment. Avoid dust formation. Avoid breathing dust, mist or spray.			
6.1.1. For non-emergency person	nnel			
Emergency procedures	: Ensure adequate air ventilation.			
6.1.2. For emergency responders	5			
Protective equipment	: Wear proper protective equipment.			
6.2. Environmental precaution	ons			
Prevent entry to sewers and public w	vaters.			
6.3. Methods and material fo	r containment and cleaning up			
Methods for cleaning up	: Sweep up dry powder and dispose properly.			
Other information	: Dispose of materials or solid residues at an authorized site.			
6.4. Reference to other secti	ons			

No additional information available

SECTION 7: Handling and sto	rage
7.1. Precautions for safe handlin	ng
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	: Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage,	including any incompatibilities
Storage conditions	: Store in dry, cool, well-ventilated area.
Storage temperature	: 2 – 8 °C
7.3. Specific end use(s)	

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

# SECTION 8: Exposure controls/personal protection

8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

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# 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

## 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses	Dust		EN 166

# 8.2.2.2. Skin protection

#### Skin and body protection:

In case of possible repeated skin contact wear protective clothing

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11		EN ISO 374

#### 8.2.2.3. Respiratory protection

Respiratory protection			
Device	Filter type	Condition	Standard
Dust mask	Туре РЗ	Dust protection	EN 143

### 8.2.2.4. Thermal hazards

No additional information available

# 8.2.3. Environmental exposure controls

# Environmental exposure controls:

Avoid release to the environment.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

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Appearance: Powder.Odour: Odourless.Odour threshold: $\geq$ mg/m³Melting point: Not availableFreezing point: Not availableBoiling point: Not availableBoiling point: Not availableFlammability: Not availableExplosive limits: Not applicableLower explosion limit: Not applicableUpper explosion limit: Not applicableFlash point: Not applicableAuto-ignition temperature: Not availablepH: 4 - 5 optimum pHpH solution: Not availableViscosity, kinematic: Not availableSolubility: Readily soluble in water.Partition coefficient n-octanol/water (Log: Not availableKow):Not availableVapour pressure: Not availableVapour pressure at 50°C: Not availableDensity: Not availableRelative density: Not availableRelative vapour density at 20°C: Not availableParticle size: Not available	Colour	: Yellow to amber.
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	Relative density	: Not available
Particle size : Not available	Relative vapour density at 20°C	: Not applicable
	Particle size	: Not available

# 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Other properties

: Loss on drying <10%

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

None under normal conditions.

## 10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

## **10.3.** Possibility of hazardous reactions

No additional information available

#### **10.4.** Conditions to avoid

- Heat. Moisture.

# 10.5. Incompatible materials

No additional information available

# **10.6.** Hazardous decomposition products

May liberate toxic gases: . - COx. - NOx.

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# **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
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Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
	pH: 4 – 5 optimum pH
Serious eye damage/irritation	: Not classified
	pH: 4 – 5 optimum pH
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

# 11.2. Information on other hazards

# 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine	: The substance/mixture does not contain substance(s) included in the list
disrupting properties	established in accordance with Article 59(1) of REACH for having endocrine
	disrupting properties, or is not identified as having endocrine disrupting
	properties in accordance with the criteria set out in Commission Delegated
	Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a
	concentration equal to or greater than 0,1 %

## 11.2.2. Other information

No additional information available

# SECTION 12: Ecological information

# 12.1. Toxicity Hazardous to the aquatic environment, is Not classified short-term (acute) Hazardous to the aquatic environment, long Hazardous to the aquatic environment, long term (chronic) 12.2. Persistence and degradability

Cellulase Onozuka RS (9012-54-8)		
Persistence and degradability	Minimally biodegradable.	
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		

# 12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Endocrine disrupting properties	
by endocrine disrupting properties	The substance/mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.
12.7. Other adverse effects	

#### Additional information

: Prevent entry to sewers and public waters. Avoid release to the environment

# SECTION 13: Disposal considerations

# 13.1. Waste treatment methods

Waste treatment methods

: When not empty dispose of this container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

# **SECTION 14: Transport information**

#### In accordance with ADR / IMDG / IATA / ADN ADR IMDG ΙΑΤΑ **ADN** 14.1. UN number or ID number Not applicable Not applicable Not applicable Not applicable 14.2. UN proper shipping name Not applicable Not applicable Not applicable Not applicable 14.3. Transport hazard class(es) Not applicable Not applicable Not applicable Not applicable 14.4. Packing group Not applicable Not applicable Not applicable Not applicable 14.5. Environmental hazards Not applicable Not applicable Not applicable Not applicable No supplementary information available

#### 14.6. Special precautions for user

# **Overland transport**

Not applicable

# Transport by sea

Not applicable

# Air transport

Not applicable

# Inland waterway transport

Not applicable

# 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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# SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

#### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

#### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

## Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

Ensure all national/local regulations are observed.

#### Germany

Water hazard class (WGK)	:	WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 3; ID No. 2681).
Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	Cellulase Onozuka RS is listed
SZW-lijst van mutagene stoffen	:	Cellulase Onozuka RS is listed
SZW-lijst van reprotoxische stoffen –	:	The substance is not listed
Borstvoeding		
SZW-lijst van reprotoxische stoffen –	:	The substance is not listed
Vruchtbaarheid		
SZW-lijst van reprotoxische stoffen –	:	The substance is not listed
Ontwikkeling		
Denmark		

**Danish National Regulations** 

: Young people below the age of 18 years are not allowed to use the product

#### **15.2.** Chemical safety assessment

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# SECTION 16: Other information

	anges		
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
	Regulatory framework	Added	
	Adverse health effects caused by endocrine disrupting properties	Added	
	Substance type	Added	
	Comments (on top of composition)	Added	
1.1	EC-No.	Added	
1.1	EC Index-No.	Added	
1.1	Product form	Modified	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures after inhalation	Modified	
6.1	Protective equipment	Added	
6.1	Emergency procedures	Added	
6.1	General measures	Modified	
6.3	Other information	Added	
7.1	Additional hazards when processed	Added	
7.1	Precautions for safe handling	Added	
8.2	Environmental exposure controls	Added	
8.2	Appropriate engineering controls	Added	
9.1	Odour threshold	Added	
10.6	Hazardous decomposition products	Modified	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	

Abbreviations and acronyms:				
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways			
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008			
ΙΑΤΑ	International Air Transport Association			
IMDG	G International Maritime Dangerous Goods			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006			
SDS	Safety Data Sheet			

Data sources

: Supplier.

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Full text of H- and EUH-statements:		
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
Resp. Sens. 1     Respiratory sensitisation, Category 1		

Safety Data Sheet (SDS), EU Duchefa 2023

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.